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**Form PTO-1449** (modified)

Atty. Docket No.  
 INRP:050/HYL

Serial No.  
 08/918,407

List of Patents and Publications for Applicant's

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

**Applicants**

Jack A. Roth, Toshiyoshi Fujiwara, Elizabeth A. Grimm, Tapas Mukhopadhyay, Wei-Wei Zang and Laurie B. Owen-Schaub

Filing Date:  
 August 26, 1997

Group:  
~~1632~~ 1636

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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<i>JS</i>	A1	5,055,400	10/08/91	Lo <i>et al.</i>	435	69.1	
<i>JS</i>	A2	4,980,289	12/25/90	Temin <i>et al.</i>	435	235.1	
<i>JS</i>	A3	4,740,463	04/26/88	Weinberg <i>et al.</i>	435	456	
<i>JS</i>	A4	5,328,470	07/12/94	Nabel <i>et al.</i>	604	101	
<i>JS</i>	A5	5,252,479	10/12/93	Srivastava	435	235.1	
<i>JS</i>	A6	5,166,320	11/24/92	Wu <i>et al.</i>	530	395	
<i>JS</i>	A7	5,532,220	07/02/96	Lee <i>et al.</i>	514	44	
<i>JS</i>	A8	5,747,469	05/05/98	Roth <i>et al.</i>	514	44	

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<i>JS</i>	B1	EP 0174608	09/05/85	Europe			
<i>JS</i>	B2	EP 0351585	06/23/89	Europe			
<i>JS</i>	B3	EP 0475623	08/23/91	Europe			
<i>JS</i>	B4	EP 0390323	10/03/90	Europe			
<i>JS</i>	B5	WO 90/10448	09/29/90	PCT			
<i>JS</i>	B6	WO 93/03769	03/04/93	PCT			
<i>JS</i>	B7	FR 2688514	09/17/93	France			
<i>JS</i>	B8	WO 94/10323	05/11/94	PCT			
<i>JS</i>	B9	WO 94/24297	10/27/94	PCT			
<i>JS</i>	B10	WO 95/02697	01/26/95	PCT			
<i>JS</i>	B11	WO 94/08026	04/14/94	PCT			

Examiner: *William Sancha*

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See Page 1Other Art  
See Page 2**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
20	C1	Bandyopadhyay and Temin, "Expression of complete chicken thymidine kinsase gene inserted in a retrovirus vector," <i>Mol. Cell. Biol.</i> , 4(4):749-754, 1984.
20	C2	Bowtell <i>et al.</i> , "Comparison of expression in hemopoietic cells by retroviral vectors carrying two genes," <i>J. Virol.</i> , 62(7):2464-2473, 1988.
20	C3	Casson <i>et al.</i> , "p53 gene mutations in Barrett's epithelium and esophageal cancer," <i>Cancer Res.</i> , 51:4495-4499, 1991.
20	C4	Chen <i>et al.</i> , "Genetic mechanisms of tumor suppression by the human p53 gene," <i>Science</i> , 250:1576-1580, 1990.
20	C5	Chen <i>et al.</i> , "Expression of wild-type p53 in human A673 cells suppresses tumorigenicity but not growth rate," <i>Oncogene</i> , 6:1799-1805, 1991.
20	C6	Goyette <i>et al.</i> , "Progression of colorectal cancer is associated with multiple tumor suppressor gene defects but inhibition of tumorigenicity is accomplished by correction of any single defect via chromosome transfer," <i>Mol. Cell. Biol.</i> , 12(3):1387-1395, 1992.
20	C7	Gusterson <i>et al.</i> , "Expression of p53 in premalignant and malignant squamous epithelium," <i>Oncogene</i> , 6:1785-1798, 1991.
20	C8	Kumar <i>et al.</i> , "Activation of <i>ras</i> oncogenes preceeding the onset of neoplasia," <i>Science</i> , 248:1101-1104, 1990.
20	C9	Maxwell <i>et al.</i> , "Inefficiency of expression of Luciferase Reporter from transfected murine leukaemia proviral DNA may be partially overcome by providing a strong polyadenylation signal," <i>J. Gen. Virol.</i> , 72:1721-1724, 1991.
20	C10	Mukhopadhyay <i>et al.</i> , "Specific inhibition of K- <i>ras</i> expression and tumorigenicity of lung cancer cells by antisense RNA," <i>Cancer Res.</i> , 51:1744-1748, 1991.
20	C11	Owens and Boyd, "Expressing antisense Po RNA in Schwann cells perturbs myelination," <i>Development</i> , 112:639-649, 1991.
20	C12	Palmer <i>et al.</i> , "Efficient retrovirus-mediated transfer and expression of a human adenosine deaminase gene in diploid skin fibroblasts from an adenosine deaminase-deficient human," <i>Proc. Natl. Acad. Sci. USA</i> , 84:1055-1059, 1987.

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Exam. Init.	Ref. Des.	Citation
W	C13	Seyama <i>et al.</i> , "In vitro and in vivo regulation of liver epithelial cells carrying a metallothionein-rasT24 fusion gene," <i>Mol. Carcinogenesis</i> , 1:89-95, 1988.
W	C14	Takahashi <i>et al.</i> , "Wild-type but not mutant p53 suppresses the growth of human lung cancer cells bearing multiple genetic lesions," <i>Cancer Res.</i> , 52:2340-2343, 1992.
W	C15	Zhou and Duesberg, "myc protooncogene linked to retroviral promoter, but not to enhancer, transforms embryo cells," <i>Proc. Natl. Acad. Sci. USA</i> , 85:2924-2928, 1988.
W	C16	Conroy, "New gene therapy cleared for use against lung cancer," <i>Biotech Daily</i> , pp. 3-4, 1992.
W	C17	Dialog Search Report dated September 22, 1992.
W	C18	Sundaresan <i>et al.</i> , "Somatic genetic changes in pre-invasive lesions in bronchial epithelium," <i>J. Pathol.</i> , 167(Suppl):100A, 1992, Abstract only.
W	C19	Dialog Search Reports dated August 7, 1992 and February 26, 1993.
W	C20	Debus <i>et al.</i> , <i>J. Cancer Res. Clin. Oncol.</i> , 116(Suppl Part 1):5-162, Abstract# A2.037.09, 1990.
W	C21	Delauney <i>et al.</i> , "A stable bifunctional antisense transcript inhibiting gene expression in transgenic plants," <i>Proc. Natl. Acad. Sci. USA</i> , 85:4300-4304, 1988.
W	C22	Feig <i>et al.</i> , "Somatic activation of <i>ras</i> <sup>K</sup> gene in a human ovarian carcinoma", <i>Science</i> , 223:698-701, 1984.
W	C23	Finkel <i>et al.</i> , "Activation of <i>ras</i> genes in human tumors does not affect localization, modification, or nucleotide binding properties of p21", <i>Cell</i> , 37:151-158, 1984.
W	C24	Griep and Heiner, "Antisense <i>Myc</i> sequences induce differentiation of F9 cells", <i>Proc. Natl. Acad. Sci. USA</i> , 85:6806-6810, 1988.
W	C25	Gunning <i>et al.</i> , "A human 8-actin expression vector system directs high-level accumulation of antisense transcripts", <i>Proc. Natl. Acad. Sci. USA</i> , 84:4831-4835, 1987.
W	C26	Kasid <i>et al.</i> , "Effect of antisense <i>c-ras</i> -1 on tumorigenicity and radiation sensitivity of a human squamous carcinoma," <i>Science</i> , 243:1354-1356, 1989.
W	C27	Khokha <i>et al.</i> , "Antisense RNA-induced reduction in murine timp levels confers oncogenicity on swiss 3T3 cells," <i>Science</i> , 243:947-950, 1989.

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Exam. Init.	Ref. Des.	Citation
45	C28	Kris <i>et al.</i> , "Expression of Ki-ras oncogene in tumor cell variants exhibiting different metastatic capabilities," <i>Int. J. Cancer</i> , 35:227-230, 1985.
46	C29	Izant and Weintraub, "Inhibition of thymidine kinase gene expression by anti-sense RNA: A molecular approach to genetic analysis," <i>Cell</i> , 36:1007-1015, 1984.
47	C30	Johnson <i>et al.</i> , "Transfection of a rat cell line with the v-Ki-ras oncogene is associated with enhanced susceptibility to natural killer cell lysis," <i>J. Exp. Med.</i> , 162:1732-1737, 1985.
48	C31	McGrath <i>et al.</i> , "Structure and organization of the human Ki-ras proto-oncogene and a related processed pseudogene," <i>Nature</i> , 304:501, 1983.
49	C32	MaGrath, "Tumor-specific antisense oligonucleotides for controlling cancer", <i>Chemical Abstracts</i> , 114(7):68, Abstract No. 114:55778n, 1991.
50	C33	Mercola <i>et al.</i> , "Antisense RNA: Eukaryotic controls," <i>Gene</i> , 72:253-265, 1988.
51	C34	Miller and Rosman, "Improved retroviral vectors for gene transfer and expression," <i>BioTechniques</i> , 7(9):980-990, 1989.
52	C35	Munroe and Stephen, "Antisense RNA inhibits splicing of pre-mRNA <i>in vitro</i> ", <i>EMBO J.</i> , 7(8):2523-2532, 1988.
53	C36	Prochownik <i>et al.</i> , "c-myc antisense transcripts accelerate differentiation and inhibit G <sub>1</sub> progression in murine erythroleukemia cells," <i>Mol. Cell. Biol.</i> , 8(9):3683-3695, 1988.
54	C37	Santos <i>et al.</i> , "Malignant activation of a K-ras oncogene in lung carcinoma but not in normal tissue of the same patient," <i>Science</i> , 223:661-664, 1984.
55	C38	Shimizu <i>et al.</i> , "Structure of the Ki-ras gene of the human lung carcinoma cell line Calu-1", <i>Nature</i> , 304:497-500, 1983.
56	C39	Stowers <i>et al.</i> , "Activation of the K-ras protooncogene in lung tumors from rats and mice chronically exposed to tetranitromethane," <i>Cancer Res.</i> , 47:3212-3219, 1987.
57	C40	Taya <i>et al.</i> , "A novel combination of K-ras and myc amplification accompanied by point mutational activation of K-ras in a human lung cancer," <i>EMBO J.</i> , 3(12):2943-2946, 1984.
58	C41	Toftgard <i>et al.</i> , "Proto-oncogene expression during two-stage carcinogenesis in mouse skin," <i>Carcinogenesis</i> , 6(4):655-657, 1985.

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87	C42	Vogelstein <i>et al.</i> , "Genetic alterations during colorectal-tumor development," <i>N. Engl. J. Med.</i> , 319(9):525-532, 1988.
87	C43	Wahran <i>et al.</i> , <i>Tumour Biol.</i> , 6:41-56, 1985.
87	C44	Winter and Perucho, "Oncogene amplification during tumorigenesis of established rat fibroblasts reversibly transformed by activated human <i>ras</i> oncogenes," <i>Mol. Cell. Biol.</i> , 6(7):2562-2570, 1986.
87	C45	International Search Report, mailed August 20, 1992.
87	C46	Brown <i>et al.</i> , "Increased accumulation of p53 protein in cisplatin-resistant ovarian cell lines," <i>Int. J. Cancer</i> , 55:678-684, 1993.
87	C47	Clarke <i>et al.</i> , "Thymocyte apoptosis induced by p53-dependent and independent pathways," <i>Nature</i> , 362:849-852, 1993.
87	C48	El-Deiry <i>et al.</i> , "WAF1, a potential mediator of p53 tumor suppression," <i>Cell</i> , 75:817-825, 1993.
87	C49	Fritsche <i>et al.</i> , "Induction of nuclear accumulation of the tumor-suppressor protein p53 by DNA-damaging agents," <i>Oncogene</i> , 8:307-318, 1993.
87	C50	Fujiwara <i>et al.</i> , "A retroviral wild-type p53 expression vector penetrates human lung cancer spheroids and inhibits growth by inducing apoptosis," <i>Cancer Res.</i> , 53:4129-4133, 1993.
87	C51	Harper <i>et al.</i> , "The p21 Cdk-interacting protein Cip1 is a potent inhibitor of G1 cyclin-dependent kinases," <i>Cell</i> , 75:805-816, 1993.
87	C52	Lowe <i>et al.</i> , "p53-dependent apoptosis modulates the cytotoxicity of anticancer agents," <i>Cell</i> , 74:957-967, 1993.
87	C53	Lowe <i>et al.</i> , "p53 is required for radiation-induced apoptosis in mouse thymocytes," <i>Nature</i> , 362:847-849, 1993.
87	C54	Merritt <i>et al.</i> , "The role of p53 in spontaneous and radiation-induced apoptosis in the gastrointestinal tract of normal and p53-deficient mice," <i>Cancer Res.</i> , 54:614-617, 1994.
87	C55	Tishler <i>et al.</i> , "Increases in sequence specific DNA binding by p53 following treatment with chemotherapeutic and DNA damaging agents," <i>Cancer Res.</i> , 53:2212-2216, 1993.

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<i>JA</i>	C56	Brown <i>et al.</i> , "Mutant p53 confers cisplatin-sensitivity to resistant ovarian tumour cells with elevated wild-type p53," <i>Proc. Am. Assoc. Cancer Res.</i> , 34:355, Abstract #2116, 1993.
<i>JA</i>	C57	Donehower, "Tumor suppressor gene p53 and apoptosis," <i>Cancer Bull.</i> , 46(2):161-166, 1994.
<i>LM</i>	C58	El Rouby <i>et al.</i> , "p53 gene mutation in B-cell chronic lymphocytic leukemia is associated with drug resistance and is independent of MDR1/MDR3 gene expression," <i>Blood</i> , 82(11):3452-3459, 1993.
<i>JA</i>	C59	Fan <i>et al.</i> , "The role of p53 in cell cycle arrest and apoptosis induced by multiple chemotherapeutic agents in Burkitt's lymphoma cells," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:311, Abstract #1851, 1994.
<i>JA</i>	C60	Fornace, Jr. "Induction by radiation of mammalian genes associated with growth-arrest and apoptosis, and the role for the p53 tumor suppressor in their regulation," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:681-682, 1994.
<i>JA</i>	C61	Fritsche <i>et al.</i> , "Induction of nuclear accumulation of the tumor-suppressor protein p53 by DNA-damaging agents," published erratum, <i>Oncogene</i> , 8(9):2605, 1993.
<i>JA</i>	C62	Hecht <i>et al.</i> , "Comparison of wildtype and mutated p53 protein expression induced by UV irradiation of cultured cells," <i>FASEB Journal</i> , 8:A667, #3870, 1994.
<i>AD</i>	C63	Kaneko <i>et al.</i> , "Induction of apoptosis and p53 protein by adriamycin and hyperthermia in a rat mammary adenocarcinoma cell line," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:314, #1871, 1994.
<i>JA</i>	C64	Kastan <i>et al.</i> , "Participation of p53 protein in the cellular response to DNA damage," <i>Cancer Res.</i> , 51:6304-6311, 1991.
<i>JA</i>	C65	Kastan, "p53: a determinant of the cell cycle response to DNA damage," <i>Adv. Exp. Med. Biol.</i> , 339:295-296, 1993.
<i>JA</i>	C66	Kastan <i>et al.</i> , "p53 and other molecular controls of the response to DNA damage," <i>J. Cell. Biochem.</i> , 9(18C):164, 1994.
<i>JA</i>	C67	Kemp <i>et al.</i> , "p53-deficient mice are extremely susceptible to radiation-induced tumorigenesis," <i>Nature Genetics</i> , 8(1):66-69, 1994.
<i>JA</i>	C68	Lane, "A death in the life of p53," <i>Nature</i> , 362:786-787, 1993.

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TS	C69	Lee and Bernstein, "p53 mutations increase resistance to ionizing radiation," <i>Proc. Natl. Acad. Sci. USA</i> , 90(12):5742-5746, 1993.
Uc	C70	Levine <i>et al.</i> , "The 1993 Walter Hubert Lecture: the role of the p53 tumour-suppressor gene in tumorigenesis," <i>Br. J. Cancer</i> , 69(3):409-416, 1994.
001	C71	Loganzo, Jr. <i>et al.</i> , "Stabilization of p53 protein is a critical response to UV radiation in human melanocytes: Implications for melanoma development," <i>Mol. Cell. Differ.</i> , 2(1):23-43, 1994.
17	C72	Lotem and Sachs, "Regulation by <i>bcl-2</i> , <i>c-myc</i> , and p53 of susceptibility to induction of apoptosis by heat shock and cancer chemotherapy compounds in differentiation-competent and -defective myeloid leukemic cells," <i>Cell Growth Differ.</i> , 4(1):41-47, 1993.
04	C73	Lotem and Sachs, "Hematopoietic cells from mice deficient in wild-type p53 are more resistant to induction of apoptosis by some agents," <i>Blood</i> , 82(4):1092-1096, 1993.
07	C74	Maity <i>et al.</i> , "The molecular basis for cell cycle delays following ionizing radiation: a review," <i>Radiother. Oncol.</i> , 31(1):1-13, 1994.
04	C75	McIlwrath <i>et al.</i> , "Cell cycle arrests and radiosensitivity of human tumor cell lines: Dependence on wild-type p53 for radiosensitivity," <i>Cancer Res.</i> , 54(14):3718-3722, 1994.
04	C76	Nabeya <i>et al.</i> , "The mutational status of p53 protein in gastric cancer cell lines predicts sensitivity to chemotherapeutic agents," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:602, Abstract #3591, 1994.
04	C77	O'Connor <i>et al.</i> , "Relationship between p53, cyclin E-cdk2 kinase complexes and G1 arrest induced by ionizing radiation in human cells," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:635, Abstract #3785, 1994.
07	C78	Petty <i>et al.</i> , "Expression of the p53 tumour suppressor gene product is a determinant of chemosensitivity," <i>Biochem. Biophys. Res. Commun.</i> , 199(1):264-270, 1994.
01	C79	Rau <i>et al.</i> , "Response of p53 to treatment with actinomycin D in human mammary carcinoma cell lines," <i>J. Cancer Res. Clin. Oncol.</i> , 120:R108, 1994.
07	C80	Shaw <i>et al.</i> , "Induction of apoptosis by wild-type p53 in a human colon tumor-derived cell line," <i>Proc. Natl. Acad. Sci. USA</i> , 89(10):4495-4499, 1992.
04	C81	Slichenmyer <i>et al.</i> , "Loss of a p53-associated G1 checkpoint does not decrease cell survival following DNA damage," <i>Cancer Res.</i> , 53(18):4164-4168, 1993.

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<i>CSA</i>	C82	Varghese <i>et al.</i> , "The role of <i>p53</i> and <i>ras</i> genes in radiation-induced transformation of immortalized human epidermal keratinocytes," <i>Proc. Am. Assoc. Cancer Res.</i> , 35:91, Abstract #542, 1994.
<i>CSA</i>	C83	Yamada and Ohyama, "Radiation and apoptosis," <i>Gan To Kagaku Ryoho</i> , 21(5):602-607, 1994, Abstract Only.
<i>CSA</i>	C84	Casey <i>et al.</i> , "Growth suppression of human breast cancer cells by the introduction of a wild-type <i>p53</i> gene," <i>Oncogene</i> , 6:1791-1797, 1991.
<i>CSA</i>	C85	Wills and Menzel, "Adenovirus vectors for gene therapy of cancer," <i>J. Cell. Biochem.</i> , Abstract #S216, p 204, 1993.
<i>CSA</i>	C86	Zhang <i>et al.</i> , "Generation and identification of recombinant adenovirus by liposome-mediated transfection and PCR analysis," <i>BioTechniques</i> , 15(5):868-872, 1993.
<i>CSA</i>	C87	PCT Search Report dated July 5, 1995.
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<i>CSA</i>	C91	Baker <i>et al.</i> , "Suppression of human colorectal carcinoma cell growth by wild-type <i>p53</i> ", <i>Science</i> , 249:912-915, 1990.
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<i>CSA</i>	C93	Berkner, "Development of adenovirus vectors for the expression of heterologous genes", <i>BioTechniques</i> , 6(7):616-629, 1988.
<i>CSA</i>	C94	Blenis, "Signal transduction via the MAP kinases: Proceed at your own RISK", <i>Proc. Natl. Acad. Sci. USA</i> , 90:5889-5892, 1993.

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## Applicants

Jack A. Roth, Toshiyoshi Fujiwara, Elizabeth A. Grimm, Tapas Mukhopadhyay, Wei-Wei Zang and Laurie B. Owen-Schaub

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11	C106	Kern <i>et al.</i> , "Identification of p53 as a sequence-specific DNA-binding protein," <i>Science</i> , 252:1708-1711, 1991.
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<i>JP</i>	C121	Saris <i>et al.</i> , "Treatment of murine primary brain tumors with systemic interleukin-2 and tumor-infiltrating lymphocytes," <i>J. Neurosurg.</i> , 76:513-519, 1992.

Examiner:

*William S. Adams*

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<i>JS</i>	C126	Takahashi <i>et al.</i> , "p53: A frequent target for genetic abnormalities in lung cancer," <i>Science</i> , 246:491-494, 1989.
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<i>OK</i>	C145	Diller <i>et al.</i> , "p53 functions as a cell cycle control protein in osteosarcomas," <i>Molec. Cell. Biol.</i> , 10(11):5772-5781, 1990.
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<i>OK</i>	C147	Foreman <i>et al.</i> , <i>Bone Marrow Transport</i> , 4(3), 1990.
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AD	C151	Jolly, "Viral vector systems for gene therapy," <i>Cancer Gene Therapy</i> , 1(1):51-64, 1994.
AD	C152	Kriegler <i>et al.</i> , In: <i>Gene Transfer and Expression: A Laboratory Manual</i> .
AD	C153	Romer and Friedman, In: <i>Annals of the New York Academy of Science, Gene Therapy for Neoplastic Diseases</i> , 716:265-282 (1994).
AD	C154	Van de Waterbeemd, "Recent progress in QSAR-technology," <i>Drug Design and Discovery</i> , 9:277-285, 1993.
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AD	C156	Bacchett <i>et al.</i> , <i>Int. J. Oncol.</i> , 3(5):781-788, 1993.
AD	C157	Culver <i>et al.</i> , "In vivo gene transfer with retroviral vector-producer cells for treatment of experimental brain tumors", <i>Science</i> , 256:1550-1552, 1992.
AD	C158	Marshall, "Gene therapy's growing pains", <i>Science</i> , 269:1050-1055, 1995.
AD	C159	Neve, "Adenovirus vectors enter the brain", <i>Trends Neurosci.</i> , 16(7):251-253, 1993.
AD	C160	Tishler <i>et al.</i> , "Increases in sequence specific DNA binding by p53 following treatment with chemotherapeutic and DNA damaging agents", <i>Cancer Res.</i> , 53:2212-2216, 1993.
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AD	C162	<del>Co-pending U.S. Patent Application Serial No. 07,665,538, filed March 6, 1991 (UTSC:171).</del>

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